

Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR) v1.2

Duration: 5 days

COURSE CONTENT

The Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR) training expands your knowledge and skills of service provider core networks. You will gain the theoretical and practical knowledge needed to implement and operate service provider networks using technologies such as core architecture, services, networking, automation, quality of service (QoS), security, and network assurance.

This training prepares you for the 350-501 SPCOR v1.0 exam. If passed, you earn the Cisco Certified Specialist – Service Provider Core certification and satisfy the core exam requirement for the Cisco Certified Network Professional (CCNP) Service Provider and Cisco Certified Internetwork Expert (CCIE) Service Provider certifications. This training also earns you 64 Continuing Education (CE) credits towards recertification.

COURSE OUTLINE

- Describing Service Provider Network Architectures
- Describing Cisco IOS Software Architectures
- Implementing OSPF for Cisco IOS XR
- Implementing IS-IS for Cisco IOS XR
- Implementing BGP in Service Provider Network
- Implementing Route Maps and RPL
- Transitioning to IPv6 for Cisco IOS XR and IOS XE
- Implementing High Availability in Networking
- Implementing MPLS for Cisco IOS XR
- Implementing Cisco MPLS Traffic Engineering
- Describing Segment Routing
- Describing VPN Services
- Configuring L2VPN Services
- Configuring L3VPN Services
- Implementing Multicast for Cisco IOS XR
- Describing QoS Architecture
- Implementing QoS for Cisco IOS XR
- Implementing Control Plane Security
- Implementing Management Plane Security
- Implementing Data Plane Security
- Introducing Network Programmability
- Implementing Automation and Assurance
- Introducing Cisco NSO
- Implementing Virtualization in Service Provider Environment

PREREQUISITE

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Intermediate knowledge of Cisco IOS or IOS XE
- Familiarity with Cisco IOS or IOS XE and Cisco IOS XR software configuration

- Knowledge of IPv4 and IPv6 transmission control protocol (TCP)/IP networking
- Intermediate knowledge of IP routing protocols
- Understanding of MPLS technologies
- Familiarity with VPN technologies

These skills can be found in the following Cisco Learning Offerings:

- Implementing and Administering Cisco Solutions (CCNA®)
- Understanding Cisco Service Provided Network Foundations (SPFNDU)

WHO SHOULD ATTEND

- Network Administrators
- Network Engineers
- Network Managers
- System Engineers
- Project Managers
- Network Designers